The most important definitions

Scratch:

      is a graphic programming language but different from other programming languages, where it depends on visual and logic steps.
You can create games, moving shapes, and adding sound effects to your project and share your project to the internet.

Scratch software features:

1. Helps to learn programming in a simple way.

2. Scratch is a free software .

3. You can deal with scratch if you're connected to the Internet or not.

4. Fully Supports Arabic language.

5. You can use the Scratch software to work and design applications.

6. You can set up programs in an easy way by installing orders with each other, such as dealing with the puzzle cubes.

7. Helps to think in a logical way visually without relying on saving in the order of commands and steps.

8. Scratch can be run on different operating systems such as windows, Linux.

Code blocks:
Is the set of commands that are installed in a particular Script area (as game Puzzles).

Motion block:
      is used in the movement of sprites or the rotate or identify directions on the stage.

Events block:
      is used to determine event which is located on sprites to start implementation of the project.

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Looks block:

is used to control patterns and shapes of sprites and colors.

Control Blocks:

are used to repeat work for order or repetitions of a set of commands within the Scripts Tab

Pen block:

it makes the sprite draws lines and painted during his movement.

Sound blocks:

are sounds which adds to stories, games and projects beautiful and interesting.

Sensing blocks:

- Used as a condition to achieve a certain result of the project.
- Do not use Sensing blocks alone (but through the use of control blocks).

Operators block:

are use in arithmetic Operators.

Background of the Stage: (backdrop)

Is the image of the Stage, which be behind Sprites to add to the project aesthetic form.

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Internet is:

A network consisting of a group of networks connected to each other. Each network consists of a group of computer sets.

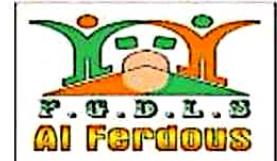## Protocol:

It is the certain rules for communication and speech, as for computers on the internet; they need to define rules for communication rules.

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Website:

It is a webpage or more, connected to each other with a certain name. They are stored on the web server. The website has an address on the internet known as URL (Uniform Resource Locator).

Hyperlink:

It is an image or text refers to a URL, when clicking it, you go to the URL .It can be in the same page or on another page or even another site.

Download files:

It is the process of transmitting or copying files or programs through the internet to the computer (these programs can be used offline)

Upload files:

It means to transmit a file or a program from your computer to another on the internet.

Internet Search Service

It helps the users to reach the sites that contain the information they need. Such as: Google and Bing websites.

WWW web service

It is an abbreviation to Worldwide web. It is a means to reach information.

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Cloud Computing

It is the technology that depends on transfer processing and storage of a computer to what is known as (Cloud), which is a server or SERVERS, that can be reached through the internet, to make programs and applications available.

Requirements to login cloud computing:

1. A computer set [PC, laptop, iPad, mobile phone].

2. An operating system enables you to get connected.

3. An internet browser.

4. Internet connection

5. Cloud computing provider. (It is like a service of web hosting but with more availabilities).

Some of the services provided by cloud computing:

1. Cloud storage.

2. Cloud Music.

3. Cloud Applications.

Disadvantages of cloud computing:

1- It needs internet connection non-stop.

2- The possibility of reducing the storage capacity or options.

3- Personal data online makes it liable to theft.

4- Disability to reach your data in case of not being connected to the internet.

5- The agreement items are too weak to protect the user copyright.

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How to keep healthy in front of the computer:

1- Select the suitable light source.

2- Change your seating and sight direction every 10 minutes for 10 seconds.

3- Stand up every 30 minutes.

4- The level of the chair and the computer should be suitable.

5- Leave a distance of about 50 -70 cm between you and the computer.

6- Move your knees randomly every20 minutes..

7- The part with hardware and the cables should be away of about half a meter at least.

8- Move your hand when using the mouse continuously.

9- Move your feet in time of long sitting.

10- Put on heavy socks in winter to warm up your feet.

Some idioms and concepts of internet safety:

1- Cyber Bullying.

It is the wrong way of expression in chat rooms or messaging or even SMS either on the internet or the phone.

Cyber Bullying التعدي الإلكتروني عبر الإنترنت:

يقصد به أي خروج عن الأدب والأخلاق في غرف المحادثة أو الرسائل الفورية أو الرسائل القصيرة

سواء كان ذلك عن طريق الإنترنت أو التليفون المحمول.

2- Happy Slapping.

It is the attack of a victim while not paying attention. The partner takes a photo by the mobile phone or digital camera on the computer, then publishing the photo.

Happy Slapping الصفع السعيد:

عملية مهاجمة إحدى الضحايا على غفلة منه، ويقوم شريك

المهاجم بتصويرها بالتليفون المحمول أو كاميرا رقمية، ثم يتم نشرها

عبر التليفونات المحمولة أو على الإنترنت.

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3- Phishing.

It is pretending to be an official body to get personal and financial information about others.

-التصيد الاحتيالي **Phishing**:

تظاهر شخص محتال بأنه يتبع هيئة استعلامات للحصول على بيانات شخصية أو مالية من آخرين عبر الإنترنت.

4- Contempt.

It is adding rude comment in a chat online.

-الازدراء **Contempt**:

وضع تعليق غير مهذب أو غير أخلاقي في محادثةٍ على الإنترنت.

5- Spam messages.

They are the undesirable messages that come from different places with advertisement or news that may contain a virus or harmful material.

-الرسائل المزعجة **Spam**:

رسائل إلكترونية غير مرغوب بها، تأتي بكثرة من بعض الجهات التي تعلن عن منتجاتها أو من مجموعات الأخبار وقد تحتوي على فيرس أو مواد غير أخلاقية.

6- Firewall.

It is the software or hardware that prevents unlicensed people from surfing certain illegal or impolite sites.

-جدار الحماية **Firewall**:

يقصد به الأجهزة والبرامج التي تمنع الدخول غير المصرح به إلى مواقع معينة قد تكون منافية للآداب أو غير آمنة.

With my best wishes for success...

Mrs. Nehal Mohamed